

CLAIMS

1. A process for producing a structure having holes, comprising steps of
(A) providing an impressing member having protrusions,
5 and a substrate,
(B) forming a layer, on the substrate, from a material having a less strength than the impressing member,
(C) forming depressions by impressing the impressing
10 member on the layer corresponding to protrusions of the impressing member,
(D) etching the layer to bare at least a part of the surface of the substrate, and
(E) anodizing the substrate to form holes on the
15 substrate.
2. The process according to claim 1, wherein the protrusions are formed in a regular pattern on the impressing member in the step (A).
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3. The process according to claim 1, wherein the etching in the step (D) is conducted by hydrolysis.
- 25 4. The process according to claim 1, wherein the layer formed in the step (B) contains an alkoxide.

5. The process according to claim 1, wherein the step (D) and the step (E) are conducted concurrently.

5 6. The process according to claim 1, wherein the height of the protrusions is larger than the thickness of the layer formed from the material having a less strength than the impressing member in the Step (A).

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7. The process according to claim 1, wherein the step (D) comprises, after the step of baring the surface of the substrate, an additional step of forming a film from an electroconductive material
15 insoluble in a solution employed in the anodization but is dissolved by the anodization.

8. A process for producing a functional structure comprising a step of filling a functional
20 material into the holes formed in the process set forth in claim 1.

9. The process for producing a functional structure according to claim 8, wherein the
25 functional material is a magnetic material.